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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/536,078	03/24/2000	Franco Travostino	2204/A34	1845

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BROMBERG & SUNSTEIN LLP
125 SUMMER STREET
BOSTON, MA 02110-1618

EXAMINER

OPIE, GEORGE L

ART UNIT	PAPER NUMBER
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2126

DATE MAILED: 08/01/2003

8

Please find below and/or attached an Office communication concerning this application or proceeding.

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DETAILED ACTION

1. Request for copy of Applicant's response on floppy disk:
Please help expedite the prosecution of this application by including, along with your amendment response in paper form, an electronic file copy in WordPerfect, Microsoft Word, or in ASCII text format on a 3½ inch IBM format floppy disk. Please include all pending claims along with your responsive remarks. Only the paper copy will be entered – your floppy disk file will be considered a duplicate copy. Signatures are not required on the disk copy. The floppy disk copy is not mandatory, however, it will help expedite the processing of your application. Your cooperation is appreciated.

2. The U.S. Patents used in the art rejections below have been provided as text documents which correspond to the U.S. Patents. The relevant portions of the text documents are cited according to page and line numbers in the art rejections below. For the convenience of Applicant, the cited sections are highlighted in the *text documents*. Consistent with Office procedure, the U.S. Patents corresponding to the *text documents* are also included with this action.

3. Claim Rejections - 35 U.S.C. § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-33 are rejected under 35 U.S.C. § 102(b) as being anticipated by Dobbins et al. (U.S. Patent 5,509,123).

As to claim 1, Dobbins teaches "autonomous router objects", p2 49 – p3 6 that have "functions provided by a base resource object class which define the methods and data for configuration and control"

a "forwarding engine object is provided at each network interface", p3 10-27 and

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"each forwarding engine is to provide the reception, processing, and forwarding of network layer packets" for handling the necessary function calls to direct the administration of the data transmissions, p8 et seq.

As to claim 2, Dobbins teaches the "tree" structure, p19 21-33 for managing the objects.

As to claims 3-4, Dobbins (pp9-10) teaches the memory management for storing and maintaining object data.

As to claims 5-7, Dobbins (p18 43-52) teaches the read/write limitations for controlling the object access.

As to claim 8, Dobbins (p3 10-27) teaches the objects execute on a network router device.

As to claim 9, see the discussion of claim 1 supra, with the additional hierarchical tree of objects taught by Dobbins p19 21-33 that controls execution of the forwarding plane.

As to claims 10-11, Dobbins (pp5-6) teaches the object-oriented programming principles that include, inter alia, the instantiation of an object from a class structure as recited.

As to claims 12-17, note the rejections of claims 2-8 above.

As to claim 18, note the rejection of claim 9 above. Claim 18 is the same as claim 9, except claim 18 is a computer program product claim and claim 9 is an apparatus claim.

As to claims 19-20, see the rejections of claims 10-11 respectively.

As to claim 21, see the claim 1 discussion supra. The limitations in claim 21 are the same as claim 1, but for the recitation of a processor, which would be inherent in the Dobbins system as discussed supra.

As to claims 22-28, note the rejections of claims 2-8 above.

As to claim 29, see the claim 1 discussion supra. The limitations in claim 29 are functionally equivalent to the claim 1 limitations, with the addition of a "managed object class", p2 49 – p3 6 that receives management data for managing the forwarding plane.

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As to claim 30, see the claim 2 discussion supra.

As to claim 31, Dobbins (pp5-6) teaches the object-oriented operations.

As to claim 32, Dobbins teaches the control data received from the control plane that is part of the network device, p6 17-52.

As to claim 33, note the rejection of claim 8 above.

5. The prior art of record and not relied upon is considered pertinent to the applicant's disclosure. Each reference disclosed below is relevant to one or more of the Applicant's claimed invention.

U.S. Patent No. 6,442,612 to Hugosson et al. which teaches the network agent for controlling packet processing;

U.S. Patent No. 6,324,583 to Stevens which teaches the I/O component to facilitate network object communication;

U.S. Patent No. 6,148,349 to Chow et al. which teaches the I/O mapping for interconnecting object protocols;

U.S. Patent No. 5,983,274 to Hyder et al. which teaches the management of packetized network data for object communication/direction.

Contact Information:

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- ☐ Hand-delivered responses should be brought to Crystal Park Two, 2021 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist). All hand-delivered responses will be handled and entered by the docketing personnel. Please do not hand deliver responses directly to the Examiner.
- ☐ Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist at **(703) 305-9600**.
- ☐ Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Opie at (703) 308-9120 or via e-mail at *George.Opie@uspto.gov*. Internet e-mail should not be used where sensitive data will be exchanged or where there exists a possibility that sensitive data could be identified unless there is an express waiver of the confidentiality requirements under 35 U.S.C. 122 by the Applicant. Sensitive data includes confidential information related to patent applications.


ZARNI MAUNG
PRIMARY EXAMINER